

Name _____

Date _____

Instructor _____

Puget Sound Soaring Association

PW-6U Familiarization Exam

Original: 7 June 2011

This is an Open Book Exam with the intent to familiarize you with the Limitations, Systems, and Procedures contained in the PW-6U Sailplane Flight Manual.

1. You plan to take a passenger on a flight. Given your own weight, what is the maximum passenger weight you can accept?
2. During Preflight for a Solo flight, you discover that the Forward Cockpit Altimeter is defective. Another member suggests you simply fly from the Aft Cockpit. What is your response?
3. A Third Member suggests swapping the defective Forward Cockpit Altimeter and the functioning Aft Cockpit Altimeter. What is your response?
4. There are several knobs and handles in both the Forward and Aft Cockpits. Identify the following based on their Color.
 - a. Red:
 - b. Red & White:
 - c. Yellow:
 - d. Blue:
 - e. Green:
 - f. Brown:
5. What color is the Wheel Brake Handle? Where is it located?
6. What Five Cautions apply when Ground Towing and/or Ground Maneuvering the PW-6?

- a.
 - b.
 - c.
 - d.
 - e.
7. While inspecting the tow rope, you find a knot. The Field Manager can't locate a spare tow rope, so it's decided to cut off the knot and use the modified tow rope. What is the minimum acceptable tow rope length?
8. While hooking up the tow rope, the Wing Runner determines that the Nose Hook is defective. An experienced sailplane pilot visiting from Europe suggests using the other Tow Hook. He claims "We do it all the time in Germany." What is your response?
9. You have volunteered to fly the PW-6 on Aerotow to Bandera Field for a weekend encampment. Another member has asked to ride along and would like to bring 15 pounds of food and water in the Luggage Compartment. What is your response?
10. What is the Recommended Aerotow Speed while climbing?
11. While on tow, the tow pilot radios you and says he needs to increase tow speed to ensure adequate tow plane engine cooling. What is the Maximum Tow Speed you can accept?
12. During a familiarization flight in the PW-6, your instructor asks you to Box the Wake. What is your response?
13. During a familiarization flight, your instructor would like to demonstrate a Spin Entry and Recovery. What Four Recovery Steps would you expect him to brief you on?
- a.
 - b.
 - c.
 - d.

14. As you approach your planned Release Altitude, you encounter moderate turbulence. Your instructor releases from tow and prepares to demonstrate the Spin Entry and Recovery. What is your response, if any?
15. During a familiarization flight, your instructor would like **you** to demonstrate a Turning Stall Entry and Recovery. What is the Recommended Recovery Procedure?
16. You find yourself in a very strong thermal and approaching the cloud base at 8,000' MSL. To avoid flying into the cloud, you pitch forward and begin to quickly accelerate. What is the maximum allowable speed?
17. You deploy the Airbrakes to aid your descent. Per the Sailplane Flight Manual, what Caution applies to Airbrake deployment at high speed?
18. With the Airbrakes deployed, what is the maximum allowable speed?
19. As you descend, you encounter moderate turbulence. Now what is the maximum speed with the Airbrakes deployed?
20. Once comfortably below cloud base, you elect to stow the Airbrakes. What is the maximum speed for Airbrake retraction?
21. You are soaring with a passenger onboard and operating near Maximum Gross Weight.
 - a. What Indicated Airspeed will produce the Best Lift/Drag Ratio?
 - b. In still air, what will the Variometer read at this speed?
 - c. What Indicated Airspeed will produce the Minimum Rate of Sink?
 - d. In still air, what will the Variometer read at this speed?
22. While thermaling at Ephrata, you find yourself at 16,000' MSL and not far from the airport. You elect to make a Speed Run back to the airport.
 - a. What is the maximum Indicated Airspeed you can fly?
 - b. Does it change as you descend?
23. Approaching to land, the Airbrakes jam in a slightly Open position. You elect to sideslip to control your angle of descent. What is the recommended Indicated Airspeed Range while sideslipping?

24. Per the Sailplane Flight Manual, what Caution applies to Landing?
25. As you approach Bergseth Field, the Field Manager reports that the Surface Wind is estimated at a 15 knot Crosswind. What is your response and course of action?
26. It's late in the day, but lift is still good. You're making the last flight of the day. Before you launch, you should ensure that other members will be available to help de-rig the PW-6 after landing. How many total people will you need?
27. You incur an emergency situation that causes you to abandon the aircraft. What is the procedure to do so from the front seat? From the back seat?